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CONFIRMATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE 2511 Floyed Jeffries Duncan Jr. 10/605,512 10/03/2003 **EXAMINER** 10/27/2004 36455 MCALEENAN, JAMES M FLOYED JEFFRES DUNCAN JR 9546 HAMPTON RESERVE ART UNIT PAPER NUMBER BRENTWOOD, TN 37027 3745

DATE MAILED: 10/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	VVC
	10/605,512	DUNCAN, FLOYE	D JEFFRIES
	Examiner	Art Unit	
	James M McAleenan	3745	
The MAILING DATE of this communication a	appears on the cover sheet wi	th the correspondence ad	dress
Period for Reply	DIVIC CET TO EVDIDE 3 M	ONTH(S) FROM	
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIOI - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of third od will apply and will expire SIX (6) MON tute. cause the application to become AB	eply be timely filed by (30) days will be considered timely ITHS from the mailing date of this co	y. ommunication.
Status			
1) Responsive to communication(s) filed on			
——————————————————————————————————————	his action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) 1-14 is/are pending in the application	on.		
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-14</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam			
10)⊠ The drawing(s) filed on <u>03 October 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.			
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor			
11) The oath or declaration is objected to by the	Examiner. Note the attached	a Office Action or form P	10-152.
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority document 	ents have been received.		
Certified copies of the priority docum			
3. Copies of the certified copies of the		received in this National	Stage
application from the International But * See the attached detailed Office action for a		t received	
"See the attached detailed Office action for a	ist of the certified copies hot	, reconvou.	
Attachment(s)	. –		
1) Notice of References Cited (PTO-892)	, 	Summary (PTO-413) (s)/Mail Date	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE 	5) Notice of	Informal Patent Application (PT	O-152)
Paper No(s)/Mail Date	6) [_] Other:	·	

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "mechanism or thrust bearing" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. Content of Specification

(a) <u>Title of the Invention</u>: See 37 CFR 1.72(a) and MPEP § 606. The title of the invention should be placed at the top of the first page of the specification unless the title is provided in an application data sheet. The title of the invention should

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be brief but technically accurate and descriptive, preferably from two to seven words may not contain more than 500 characters.

- (b) Cross-References to Related Applications: See 37 CFR 1.78 and MPEP § 201.11.
- (c) <u>Statement Regarding Federally Sponsored Research and Development</u>: See MPEP § 310.
- (d) Incorporation-By-Reference Of Material Submitted On a Compact Disc: The specification is required to include an incorporation-by-reference of electronic documents that are to become part of the permanent United States Patent and Trademark Office records in the file of a patent application. See 37 CFR 1.52(e) and MPEP § 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text were permitted as electronic documents on compact discs beginning on September 8, 2000.

Or alternatively, <u>Reference to a "Microfiche Appendix</u>": See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.

- (e) <u>Background of the Invention</u>: See MPEP § 608.01(c). The specification should set forth the Background of the Invention in two parts:
 - (1) <u>Field of the Invention</u>: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."
 - (2) Description of the Related Art including information disclosed under 37

 CFR 1.97 and 37 CFR 1.98: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."
- (f) Brief Summary of the Invention: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.

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(g) <u>Brief Description of the Several Views of the Drawing(s)</u>: See MPEP § 608.01(f). A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.

- (h) Detailed Description of the Invention: See MPEP § 608.01(g). A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (i) Claim or Claims: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet or electronic page (37 CFR 1.52(b)(3)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps. See 37 CFR 1.75 and MPEP § 608.01(i)-(p).
- (j) Abstract of the Disclosure: See MPEP § 608.01(f). A brief narrative of the disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims. In an international application which has entered the national stage (37 CFR 1.491(b)), the applicant need not submit an abstract commencing on a separate sheet if an abstract was published with the international application under PCT Article 21. The abstract that appears on the cover page of the pamphlet published by the International Bureau (IB) of the World Intellectual Property Organization (WIPO) is the abstract that will be used by the USPTO. See MPEP § 1893.03(e).
- (k) <u>Sequence Listing.</u> See 37 CFR 1.821-1.825 and MPEP §§ 2421-2431. The requirement for a sequence listing applies to all sequences disclosed in a given application, whether the sequences are claimed or not. See MPEP § 2421.02.
- 3. 35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms which are not clear, concise

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and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of some unclear, inexact or verbose terms used in the specification are: "preferdevice ism" and "The de hereinvice" as recited in paragraph 3. The entire specification needs to be reviewed and rewritten, so as to conform to the English language. The specification is replete with grammatical errors, incorrect usage of words within the sentence as well as typographical errors.

Claim Rejections - 35 USC § 112

Claims 1-14 rejected as failing to define the invention in the manner required by 35
 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited. For example: Claim 1, recites "the axis of the housing while constraining axial motion (like that of a thrust bearing); with a mechanism of gears, belts or other mechanical transfer from the housing to off take rotational mechanical energy and transfer it to some form of productive use;".

Claim Objections

5. Claims 1-8 are objected to under 37 CFR 1.75(c) as being in improper form because of multiple dependent claims 3-8. Claims 9-14 are objected to under 37 CFR 1.75(c) as being in improper form because of multiple dependent claims 11-14. See MPEP § 608.01(n).

Accordingly, the claims 1-14 have not been further treated on the merits.

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Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Williams (U.S. Patent Number 6,729,840) (see Figure1-2 and Col. 1, lines 39-58). Williams discloses a fluid energy conversion device having a cylindrical housing with an axial shaft that rotates (see Figure1-2 and Col. 2, lines 36-67). Williams discloses disclose a helical baffle or blade contained in the cylindrical housing positioned at an angle of >0 to >90 degrees from horizontal (see Figure1-2 and Col. 2, lines 36-67). Williams discloses the housing supported by a thrust bearing (or element) allowing for rotation around the axis of the housing while constraining axial motion (see Figure1-2 and Col. 3, lines 36-67). Williams discloses the housing having a mechanical transfer device (or shaft) to transfer energy to a generator (or power transfer device) (see Figure1-2 and Col. 2, lines 36-67). Williams discloses fluid entering the housing inlet, contacting the blades (or helical baffle) whereby causing the housing to rotate, then exiting through the housing outlet. thus transferring energy to the shaft (see Figure1-2 and Col. 2, lines 36-67 and Col. 4, lines 1-24).

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PRIOR ART

7. The prior art made of record but not relied upon is considered pertinent to applicant's disclosure and consists of 10 patents.

Rauch (U.S. Patent Number 4,524,285) is cited to show similar energy transfer features as claimed by Applicant's invention.

Carpenter (U.S. Patent Number 4,218,175) is cited to show similar energy transfer features as claimed by Applicant's invention.

McKenzie (U.S. Patent Number 4,849,647) is cited to show similar energy transfer features as claimed by Applicant's invention.

Marr et al. (U.S. Patent Number 4,512,716) is cited to show similar energy transfer features as claimed by Applicant's invention.

Toyama (U.S. Patent Number 4,272,685) is cited to show similar energy transfer features as claimed by Applicant's invention.

Fuchs (U.S. Patent Number 4,325,354) is cited to show similar energy transfer features as claimed by Applicant's invention.

Labrador (U.S. Patent Number 6,327,994) is cited to show similar energy transfer features as claimed by Applicant's invention.

Gardiner (U.S. Patent Number 5,167,483) is cited to show similar energy transfer features as claimed by Applicant's invention.

Williams (U.S. Patent Number 5,592,816) is cited to show similar energy transfer features as claimed by Applicant's invention.

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Morrison (U.S. Patent Number 928,782) is cited to show similar energy transfer features

as claimed by Applicant's invention.

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James M McAleenan whose telephone number is 703-308-2827.

The examiner can normally be reached on M-F 8:30-4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward Look can be reached on 703-308-1044. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J.M. W Cale 10/15/04

James M. McAleenan Patent Examiner

703-308-2827

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